## **AMENDMENTS TO THE CLAIMS**

Docket No.: 09669/054001

Please amend the claims as follows.

- 1. (Currently Amended) A method for calculating hashing of a message (FM) in a device communicating with a smart card, comprising:
  - storing a same hash function in said device and said smart card storing the same hash function, wherein the message comprising comprises data blocks including secret data (SD) and other public data (PD), and wherein secret data (SD) being is only known by the smart card[[, ]];
  - performing characterized in that the a calculation of the hash function of the secret data (SD) is performed in the smart card; and
  - performing the calculation of the hash <u>function</u> of all or part of the other <u>public</u> data <del>(PD)</del> is performed in the device.
- 2. (Currently Amended) The method according to claim 1, eharacterized in that wherein, if secret data (SD) is followed by the other public data (PD) in the message (FM), the smart card starts ealeulating the calculation of the hash function of all blocks that include a-secret data (SD) and then sends the a corresponding intermediate result (R) to the (ME) device that continues the hash calculation of the hash function by using the intermediate result (R) and the remaining other public data (PD).
- 3. (Currently Amended) The method according to claim 2, characterized in that wherein, if said [[H]]hash function hashes a the message block by block, and if a block of the message includes a part comprising secret data-(SD) and another part comprising other public data (PD), the smart card calculates performs the calculation of the hash function of this block.
- 4. (Currently Amended) The method according to claim 1, eharacterized in that wherein, if public data (PD) is followed by the other secret data (SD), the device (ME) starts calculating performing the calculation of the hash function of (PD) public data and then sends the corresponding intermediate result (R) and a remaining part (RP) of last hash block to the smart card that continues to do perform the calculation of the hash function ealculation

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internally by using the intermediate result (R), the remaining part of last hash block, and the remaining secret data-(SD).

## 5. (Currently Amended) An apparatus comprising:

- <u>a c[[C]]</u>ommunication device <u>ME</u> being able <u>configured</u> to be coupled to a smart card <u>CAR</u>, said device and said smart card storing the <u>a</u> same hash function[[,]];
- the <u>a</u> message (MF) comprising data blocks including secret data (SD) and other <u>public</u> data (PD), <u>wherein</u> secret data (SD) being <u>is</u> only known by the smart card, <del>characterized in that</del> <u>wherein</u> said <u>communication</u> device includes a program for performing the following steps:
  - a hashing step in which all or part of said other <u>public</u> data (<del>PD) are</del> <u>is</u> hashed in said communication device, and
  - a requesting step in which, said communication systemdevice requests the smart card to perform the hash function of all the secret data (SD).

## 6. (Currently Amended) An apparatus comprising:

- A <u>a</u> smart card (CAR) coupled to a <u>Ccommunication</u> device (ME), said <u>communication</u> device and said smart card storing the <u>a</u> same hash function, the <u>wherein a</u> message (MF) <u>comprising comprises</u> data blocks including secret data (SD) and other <u>public</u> data (PD), <u>wherein secret data</u> (SD) <u>being is only known by the smart card</u>, <u>characterized in that wherein said smart card includes a program for performing the following steps:, when requested by the communication device (ME) as defined in claim 5, a step of hashing of all of said secret data (SD).</u>
  - a hashing step in which all or part of said other public data is hashed in said communication device, and
  - a requesting step in which, said communication-device requests the smart card to perform the hash function of the secret data.

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